

WaveGen1250 4Ch Phase-Coherent Signal Playback System



Introduction

WaveGen1250 is a turn-key IF/RF 4Ch phase-coherent signal playback system ideal for Radar signal generation, Electronics Warfare, Radar System Test applications.

WaveGen1250 can output 4Ch RF/IF signal with phase coherency across the channels; it can output different waveforms at same or different IF frequency, and can adjust amplitude and phase individually on each channels. Each channel can output signal bandwidth up to 160MHz per channel simultaneously.

WaveGen1250 is based on 10+ years of experience in data recording and playback technology, and its key focus is on data continuity, signal fidelity and system quality. This system has passed stringent acceptance test and provides user with a high fidelity signal acquisition/playback system.

Leveraging high quality and comprehensive signal acquisition products, WaveGen1250 is part of Stream series which offers customers a complete of line of turn-key solutions for different sampling rate, channel count and resolution requirements. It can customize to user's different requirements, and supports Windows OS.

Applications

- Radar Signal Generation
- Electronic Warfare
- Communication, SatCom

Features and Specifications of WaveGen1250

- 4Ch 1,250MHz 16bit DAC
- Phase-coherent signal generation across channels
- Max data rate = 312.5MS/s per channel (Max 250MHz BW)
- Support Real data format(DAC Mode, 16bit), 312.5MS/s data rate per channel (156MHz BW simultaneously)
- Support Complex data format(DUC Mode, 16bit I/ 16bit Q), 200MS/s per channel(160MHz BW simultaneously)
- Each channel individual tuning frequency and amplitude settings
- Interpolation from 2 to 64K
- Typical SFDR = 65dBFS (fOut = 70MHz)
- Windows OS with NTFS File System
- Built-in single tone signal generation in GUI
- Playback from single or multiple files
- Playback in Repeat Mode for infinite signal generation
- Accessible from network
- Scalable for more channel counts

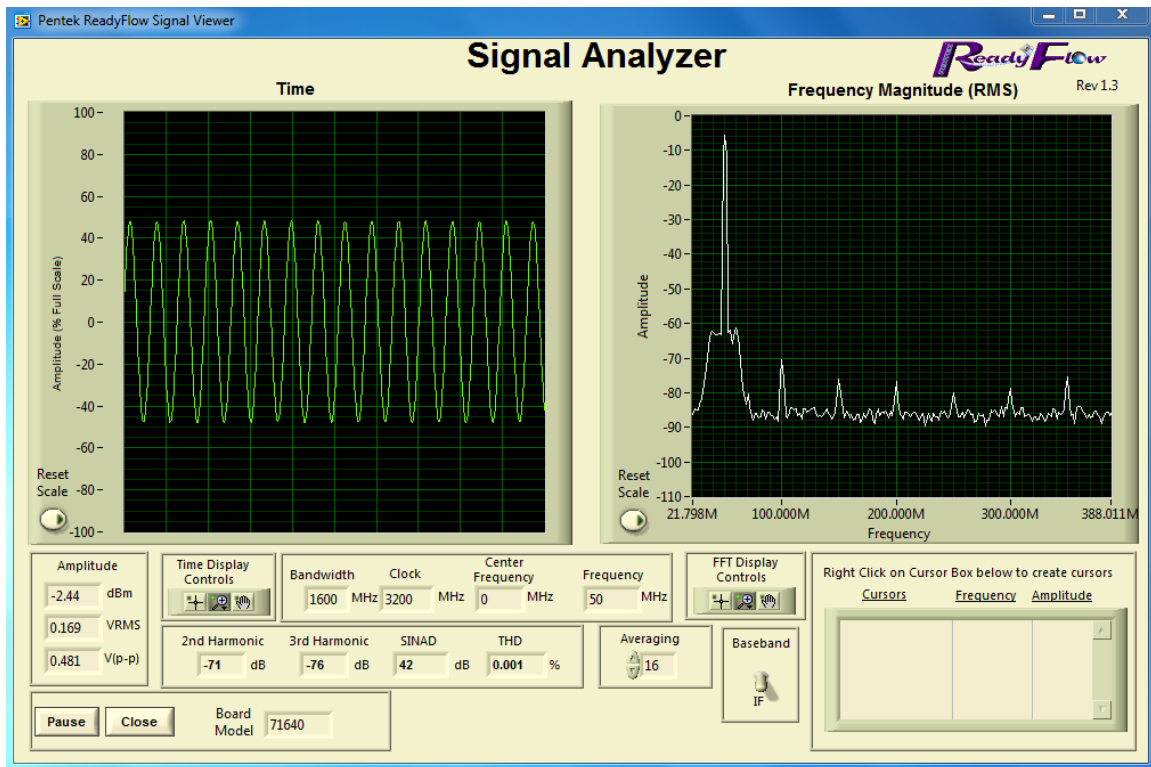


Figure 1: Playback Waveform at IF=50MHz(with Band Pass Filter)

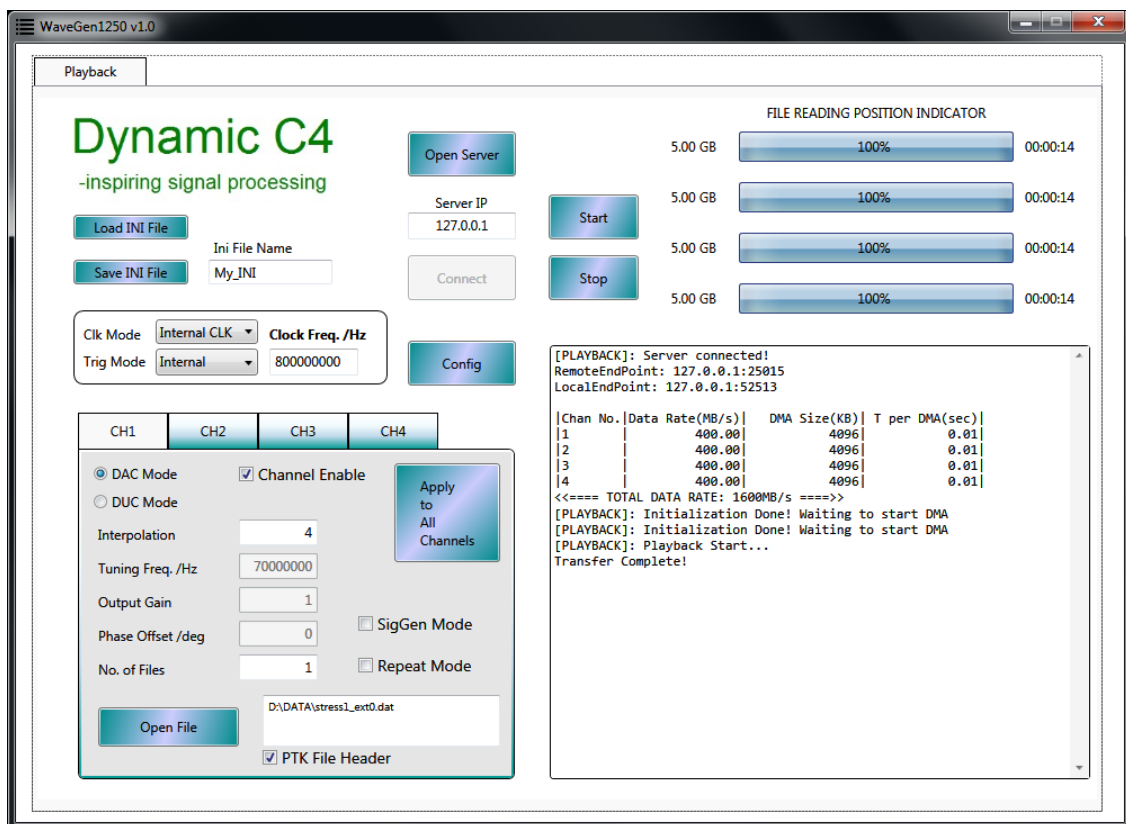


Figure 2: Intuitive GUI for Playback Control

Order Information

Model No.	Specifications
WaveGen1250	1,250MHz 16bit Signal Playback, Real/complex data format
-opt 2Ch	- 2 Channel Signal Playback
-opt 4Ch	- 4 Channel Signal Playback



Portable Chassis

Dimension: 43 x 24 x 34 (cm)

Weight: About 15Kg



19" Rack-mount

Dimension: 48 x 54 x 18(cm) (19" x 4U)

Weight: About 25Kg

For product, pricing or demo request, please contact:

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